

## 7. Julia

**Program Name:** Julia.java

**Input File:** julia.dat

Julia, your neighbor, has recently become obsessed with prime numbers. She wants to know how many prime numbers exist within the first 100 numbers. She knows you're a good programmer, so she asks you for help with this problem. You, being the great friend you are, know Julia will ask follow-up questions past the first 100 so decide to write a program to find the number of prime values before any given value.

**Input:** The first input line will contain a value  $N$  ( $1 \leq N \leq 100$ ) that denotes the number of input lines that follow. Each additional input line will contain a single value  $V$  ( $1 \leq V \leq 10^7$ ) being the number Julia has asked about.

**Output:** Output the number of prime values less than or equal to the queried value  $V$ .

**Sample input:**

```
3
100
1000
10000
```

**Sample output:**

```
25
168
1229
```